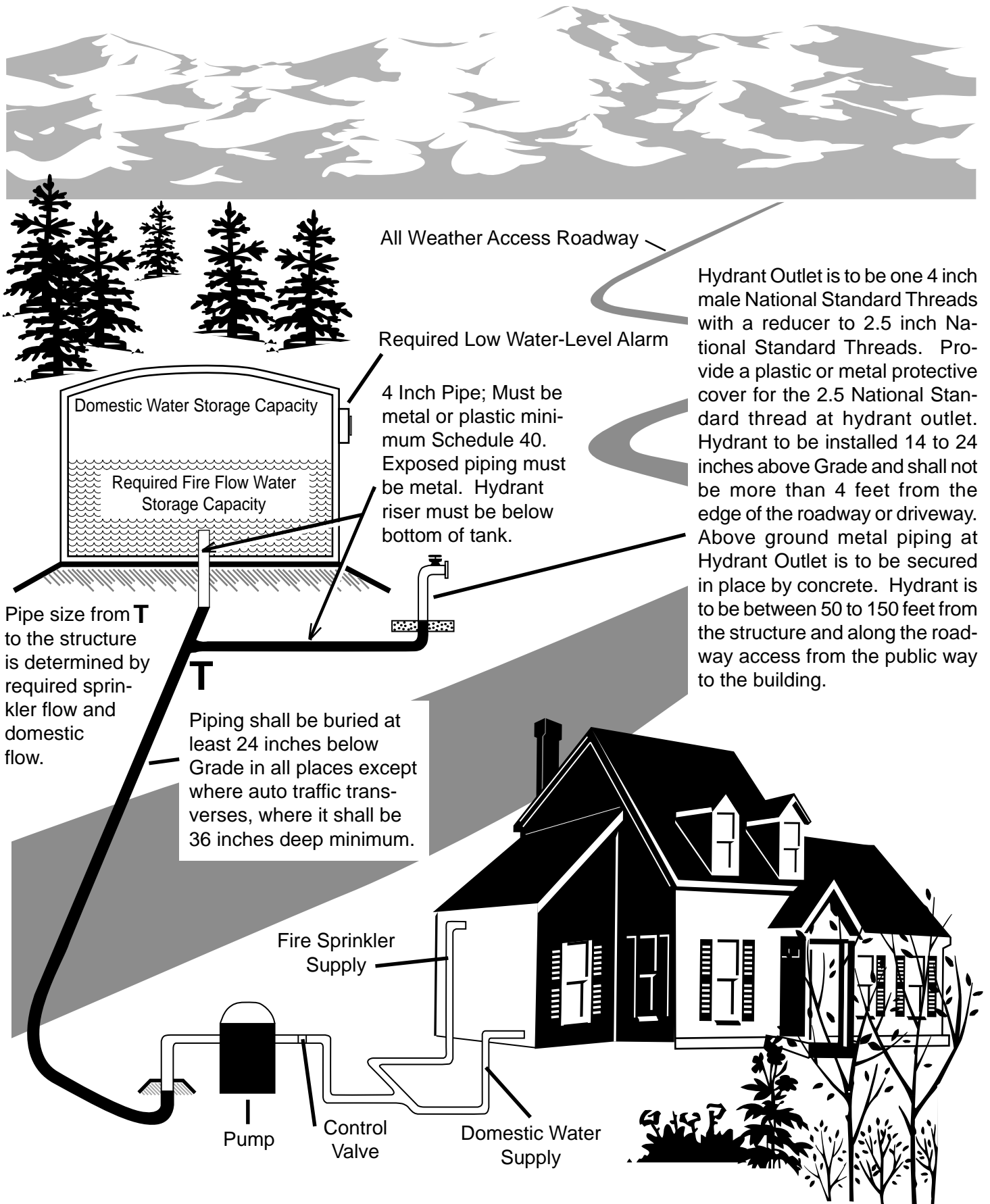


# Fire Protection Water Tank Installation Standards

Water Tanks Must Meet Setbacks Required in the County Zoning Ordinance







## MINIMUM WATER STORAGE TO PROVIDE PROTECTION FOR DWELLINGS AND OTHER STRUCTURES, WHERE ADEQUATE PUBLIC/PRIVATE WATER SUPPLY IS NOT AVAILABLE

**NOTE:** In areas where water can be supplied by pumps from a domestic source, such systems must be reviewed by the Fire Agency having jurisdiction for approval.

BUILDING SQUARE FEET	GALLONS PER MINUTE (G.P.M.) WATER FLOW	GALLONS CAPACITY	DURATION TIME
UP TO 500 FEET	250 GALLONS PER MINUTE	1,500 GALLONS	6 MINUTES
501 FEET TO 1,500 FEET	250 GALLONS PER MINUTE	3,000 GALLONS	12 MINUTES
1,501 FEET TO 3,000 FEET	250 GALLONS PER MINUTE	5,000 GALLONS	20 MINUTES
3,001 FEET TO 4,500 FEET	250 GALLONS PER MINUTE	7,500 GALLONS	30 MINUTES
OVER 4,500 FEET	250 GALLONS PER MINUTE	10,000 GALLONS	40 MINUTES

When exposure distance is 100 feet or less from adjacent exposures, the following minimum fire flow shall be adhered to. Increase in water storage may be required by the Fire Agency having jurisdiction, depending on the square footage of the exposed structure.

EXPOSURE DISTANCE	MINIMUM FIRE FLOW
OVER 100 FEET	250 GALLONS PER MINUTE
31 FEET TO 100 FEET	500 -- 750 GALLONS PER MINUTE
11 FEET TO 30 FEET	750 --1,000 GALLONS PER MINUTE
10 FEET OR LESS	1,000 --1.500 GALLONS PER MINUTE

If buildings are contiguous, a minimum of 2,500 gallons per minute shall be required.

### Water Tank Location:

1. Tank elevation shall be equal to or higher than the fire department connection on the premises. All tanks shall be equipped with a device that will ensure that the tank contains the designated amount of water for fire flow duration as determined by the Fire Agency having jurisdiction.
2. Supply outlet shall be at least four inches (4") in diameter from the base of the tank to the point of outlet at the fire department connection. The fire department connection shall be at least one (1), four inch (4") National Standard Thread male, reduced to a two and one-half inch (2-1/2") National Standard Thread male. Additional outlets may be required depending on the fire flow required.
3. Location of fire department outlet to be determined on the plot plan when submitted to the Fire Agency having jurisdiction. Consideration will be given to topography, elevations, distance from structures, drive-way access, prevailing winds, etc.
4. The fire department outlet shall be located along an access roadway and shall not be closer than fifty feet (50') nor further than one hundred fifty feet (150') from the structure.
5. Above ground piping at hydrant outlet is to be metal piping secured in place in concrete.
6. Provide a protective plastic or metal cover for two and one-half inch (2-1/2") National Standard threads at hydrant outlet.